FIG. 1

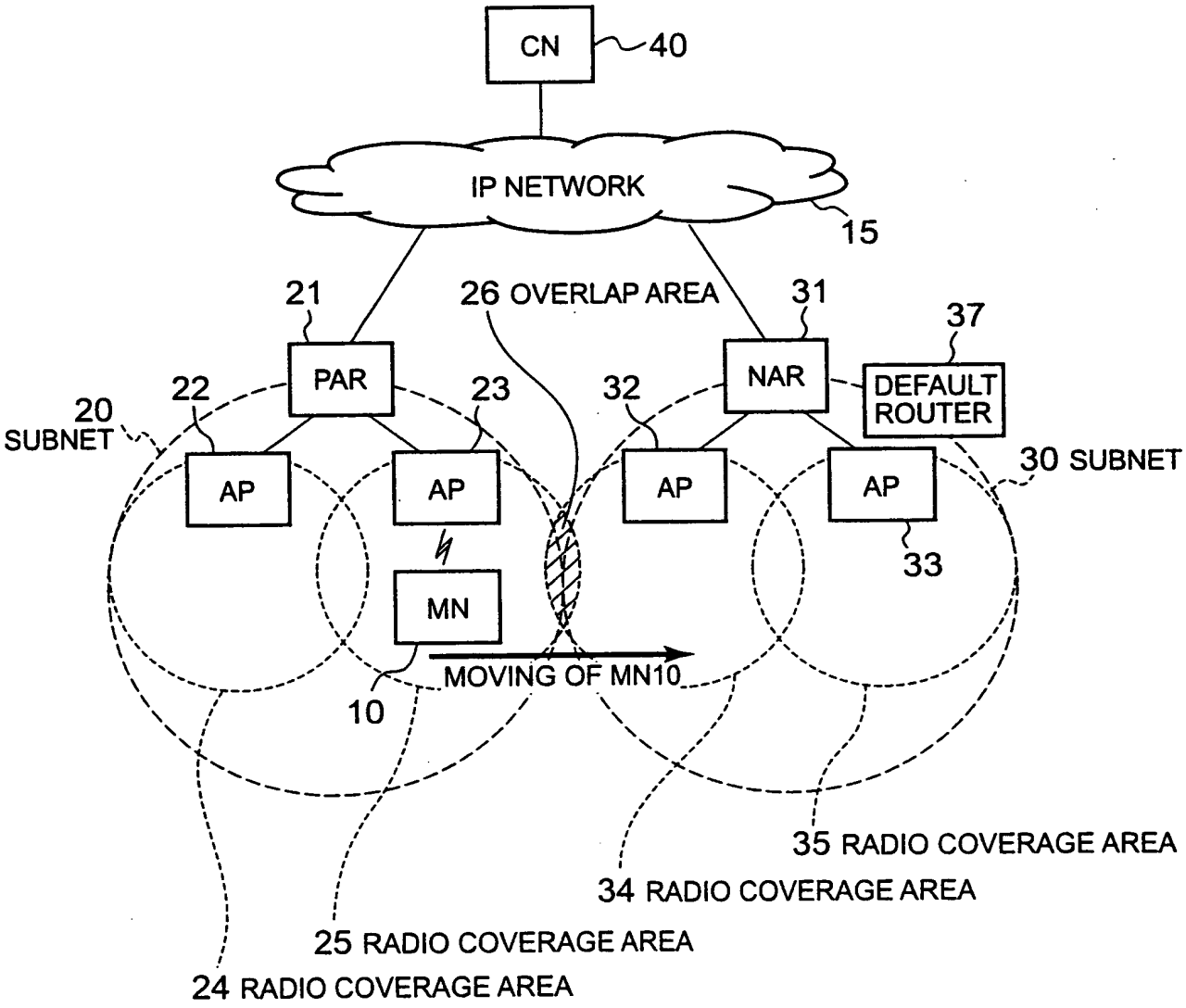
CN
40
IP NETWORK
15
21
26 OVERLAP AREA
31
37
PAR
NAR
DEFAULT ROUTER
22
23
32
20 SUBNET
AP
AP
AP
AP
30 SUBNET
33
MN
MOVING OF MN10
10
35 RADIO COVERAGE AREA
34 RADIO COVERAGE AREA
25 RADIO COVERAGE AREA
24 RADIO COVERAGE AREA

FIG. 2

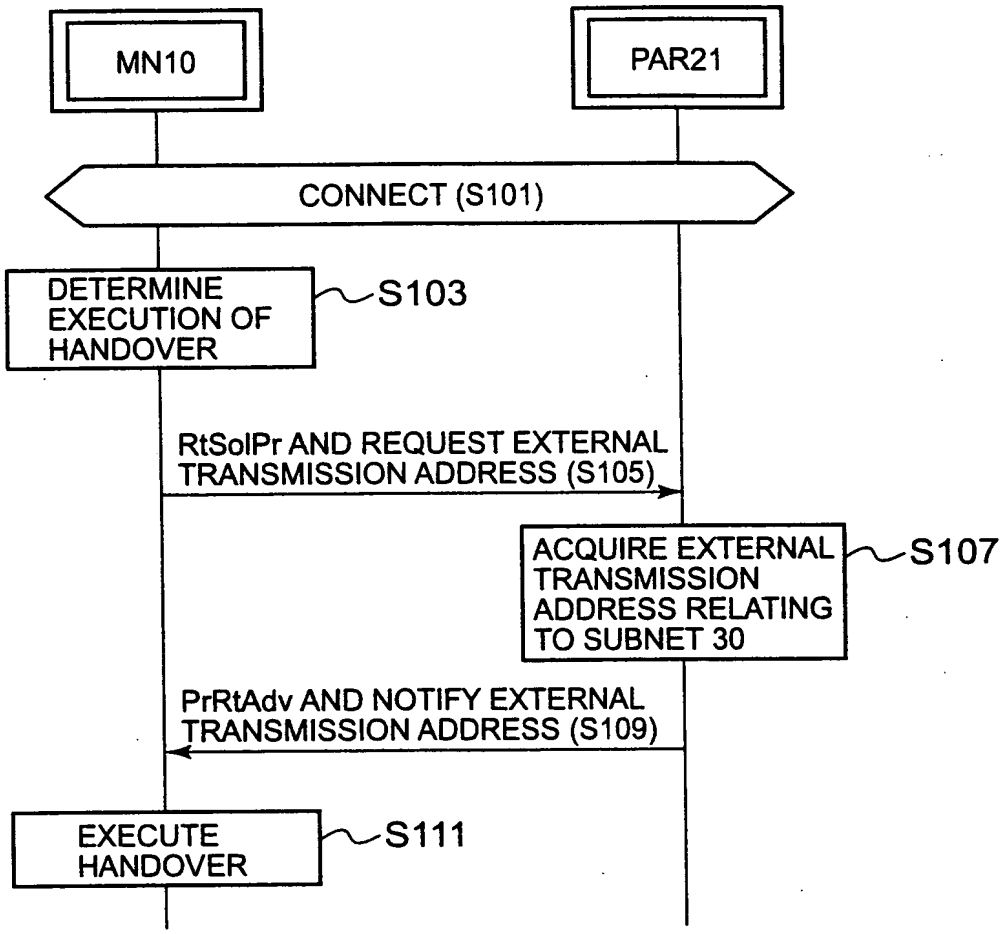
MN10
PAR21
CONNECT (S101)
DETERMINE EXECUTION OF HANDOVER
S103
RtSolPr AND REQUEST EXTERNAL TRANSMISSION ADDRESS (S105)
ACQUIRE EXTERNAL TRANSMISSION ADDRESS RELATING TO SUBNET 30
S107
PrRtAdv AND NOTIFY EXTERNAL TRANSMISSION ADDRESS (S109)
EXECUTE HANDOVER
S111

FIG. 3

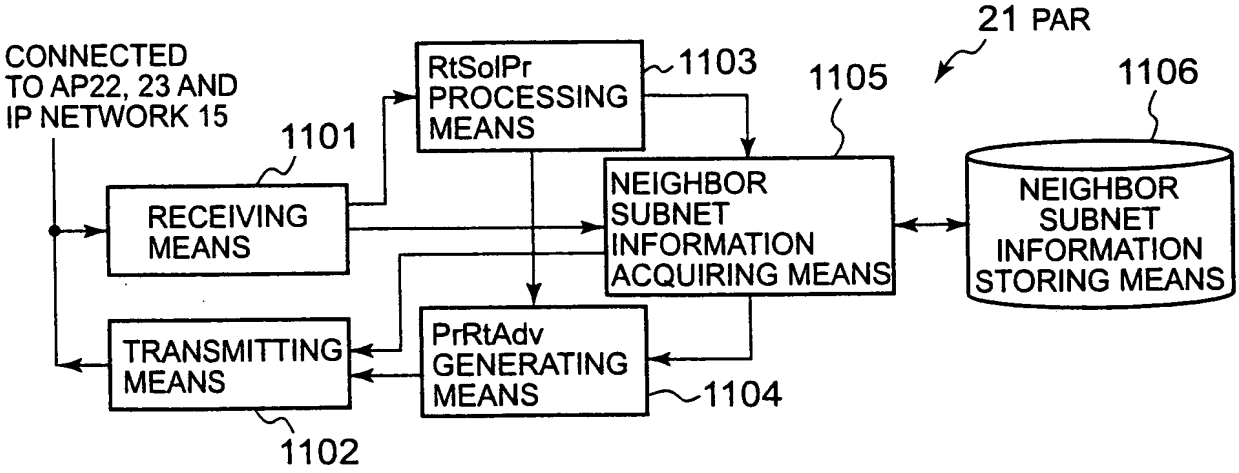
21 PAR
CONNECTED TO AP22, 23 AND IP NETWORK 15
1101
RECEIVING MEANS
RtSolPr PROCESSING MEANS
1103
1105
1106
NEIGHBOR SUBNET INFORMATION ACQUIRING MEANS
NEIGHBOR SUBNET INFORMATION STORING MEANS
TRANSMITTING MEANS
PrRtAdv GENERATING MEANS
1104
1102

FIG. 4A

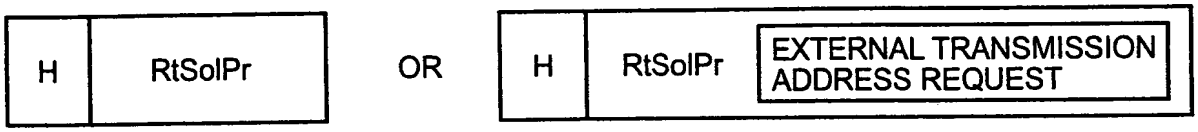

FIG. 4B

FIG. 5

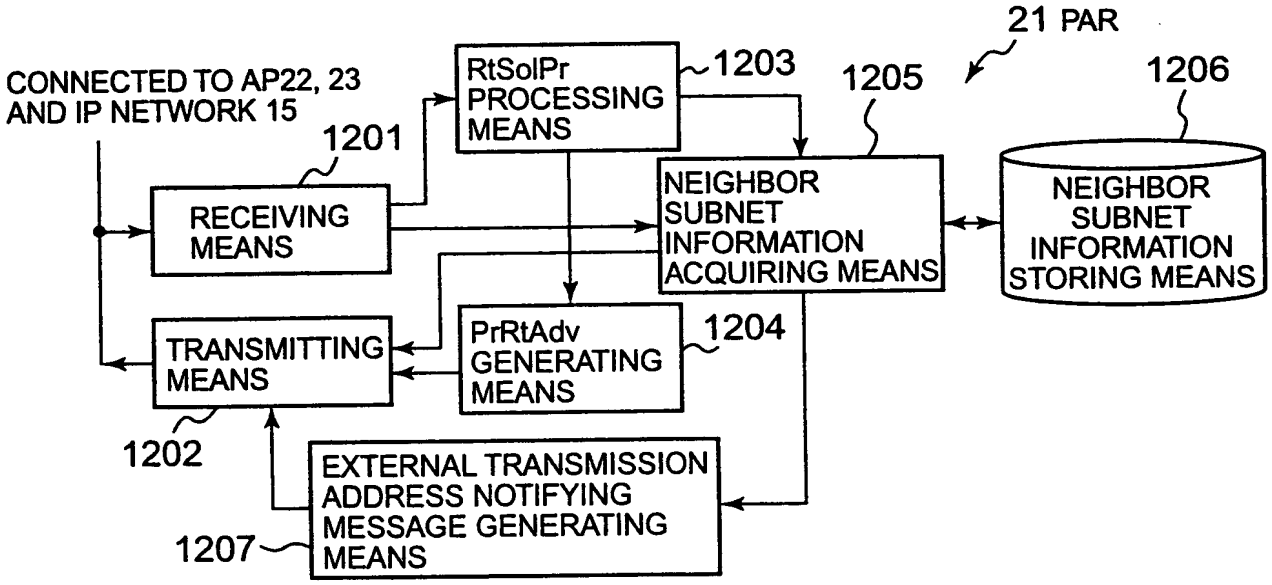

FIG. 6A

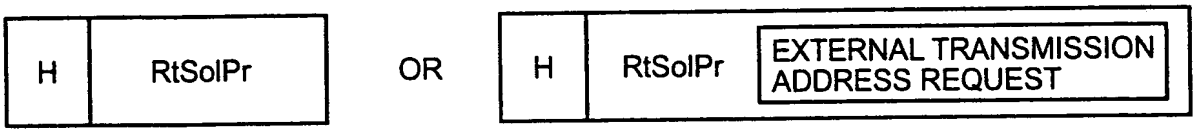

FIG. 6B

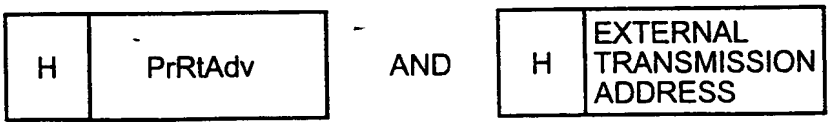

FIG. 7

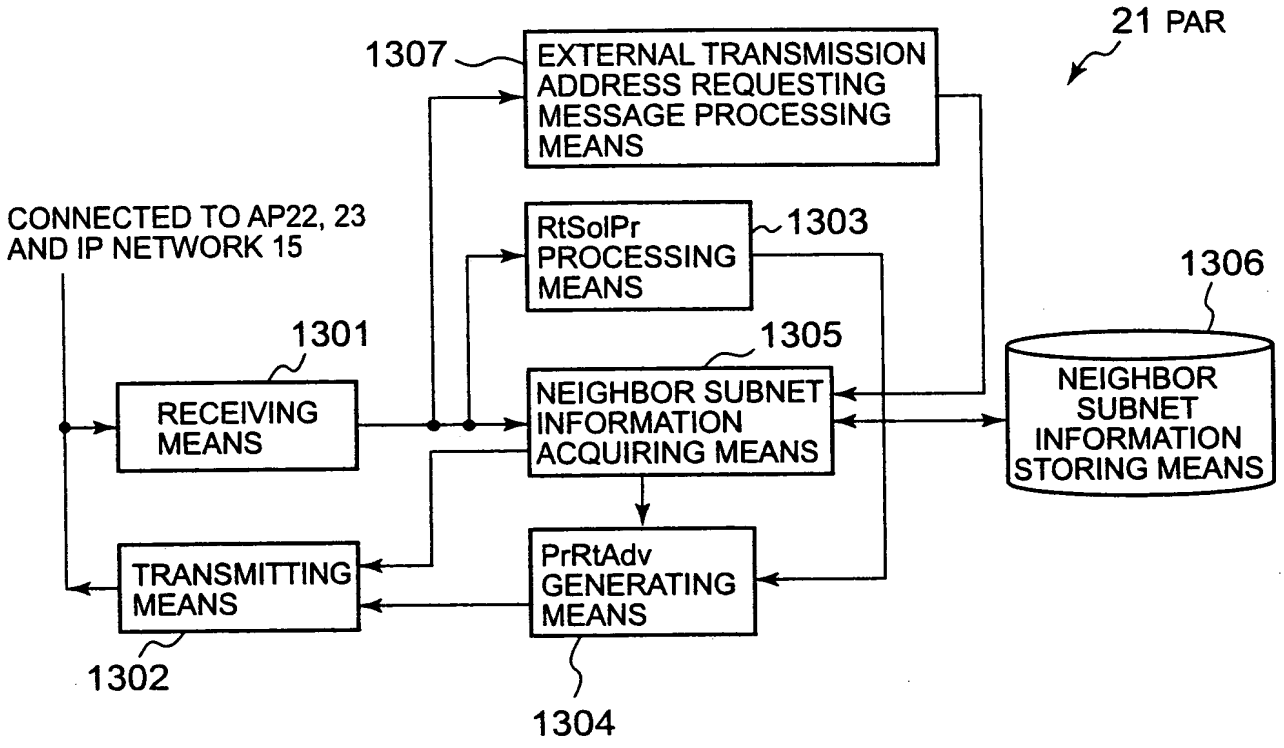

FIG. 8A

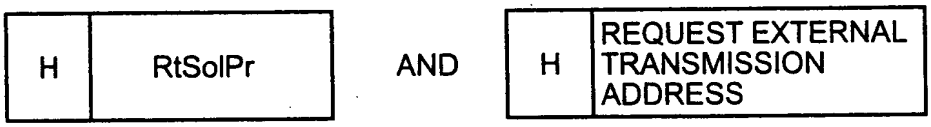

FIG. 8B

FIG. 9

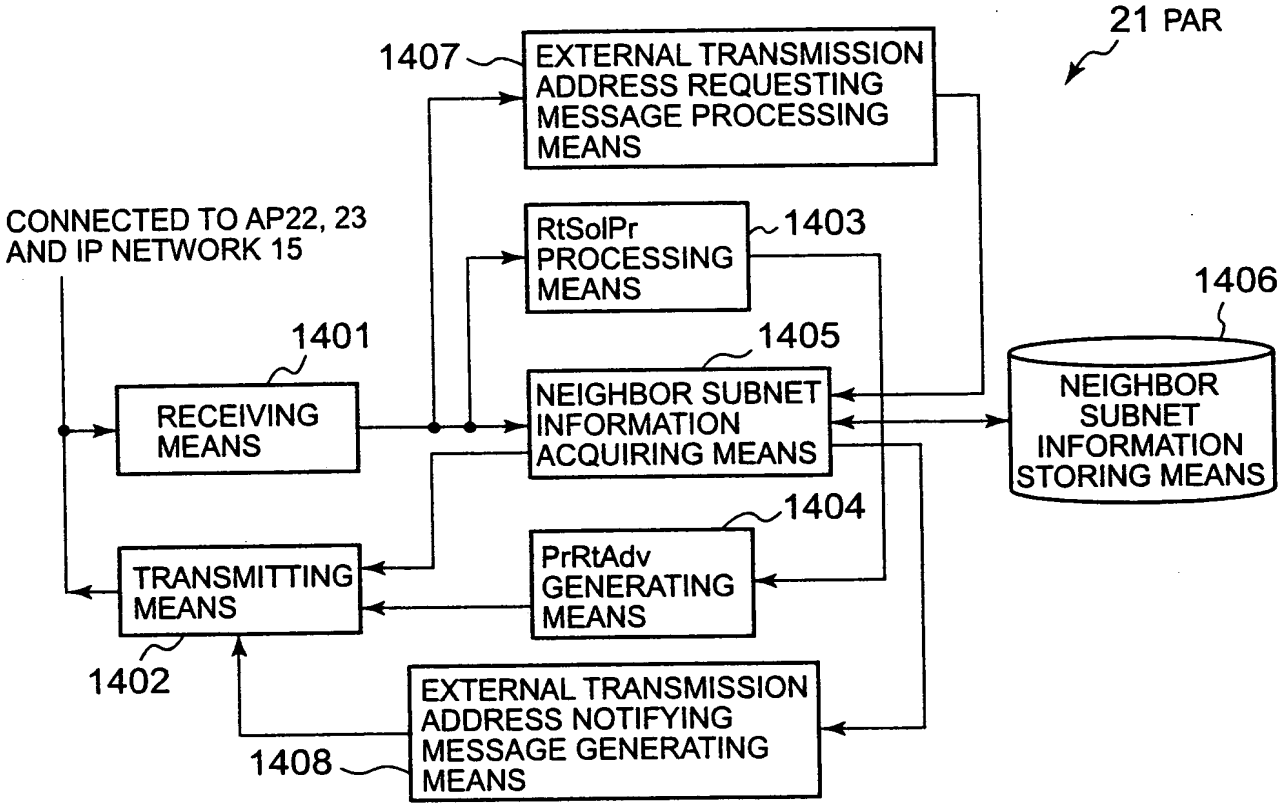

FIG. 10A

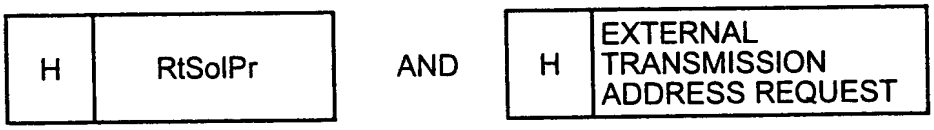

FIG. 10B

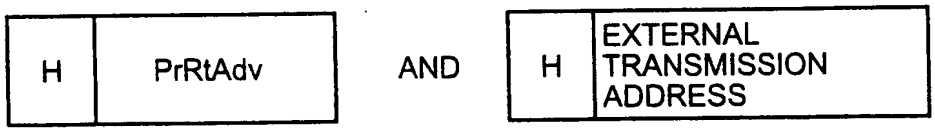

FIG. 11

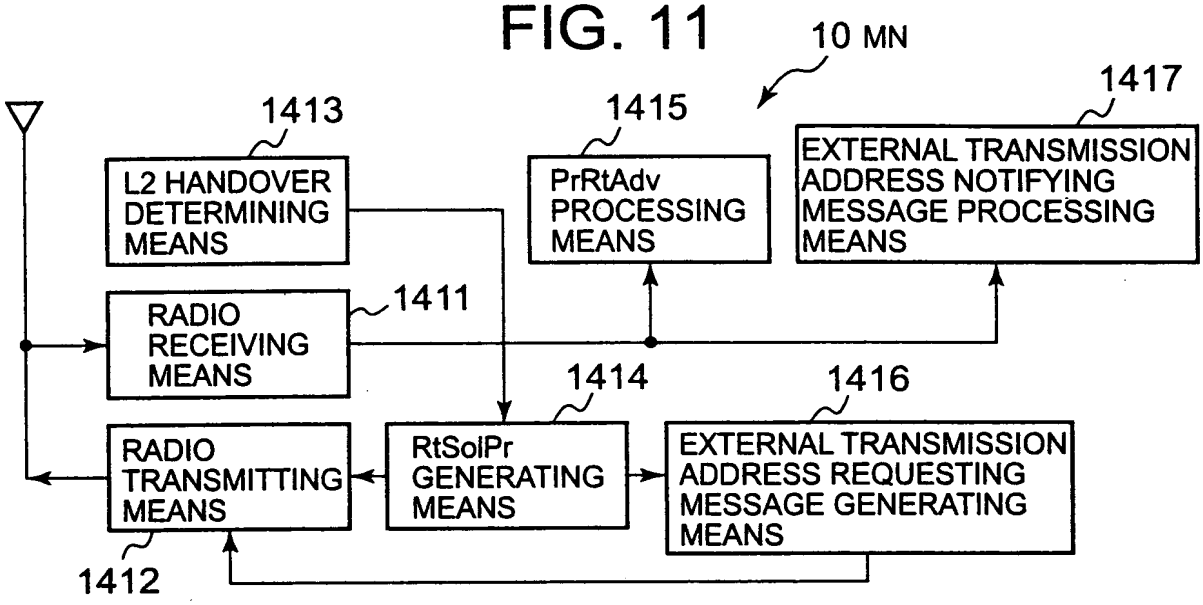
10 MN
1413
L2 HANDOVER DETERMINING MEANS
1415
PrRtAdv PROCESSING MEANS
1417
EXTERNAL TRANSMISSION ADDRESS NOTIFYING MESSAGE PROCESSING MEANS
1411
RADIO RECEIVING MEANS
1414
RtSolPr GENERATING MEANS
1416
EXTERNAL TRANSMISSION ADDRESS REQUESTING MESSAGE GENERATING MEANS
RADIO TRANSMITTING MEANS
1412

FIG. 12

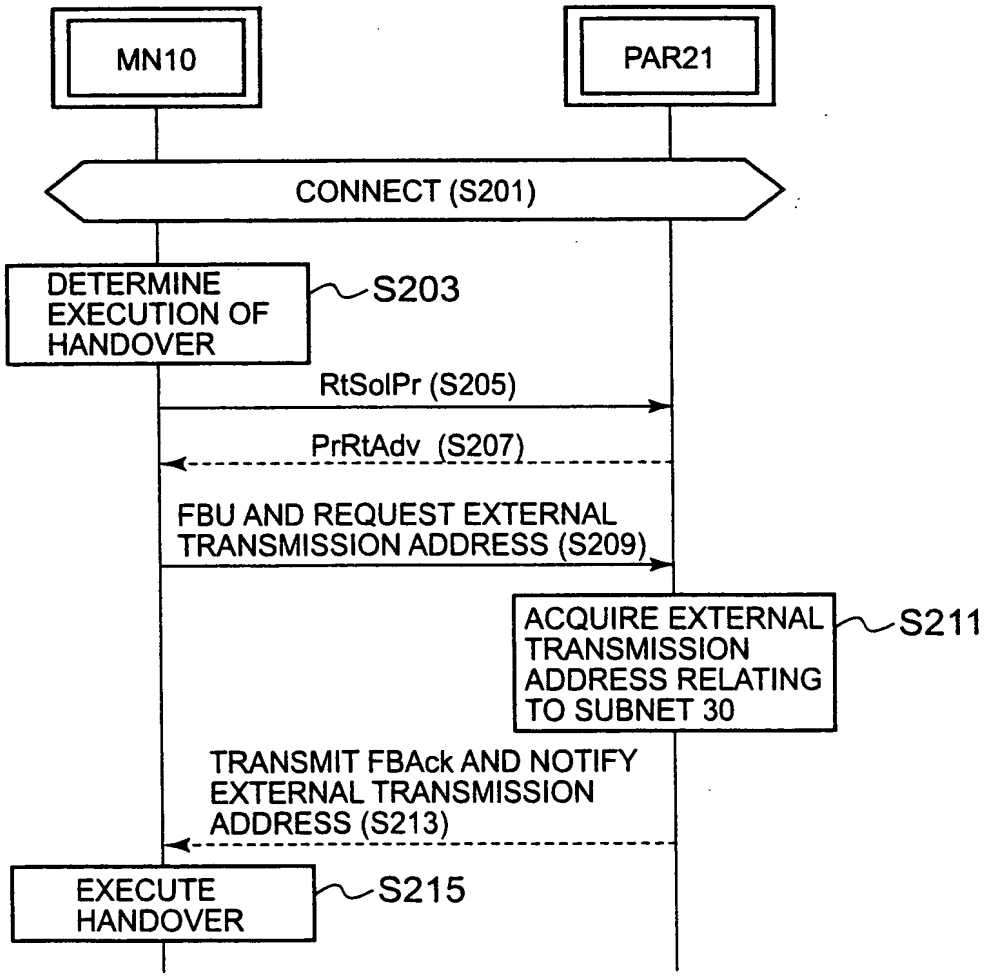
MN10
PAR21
CONNECT (S201)
DETERMINE EXECUTION OF HANDOVER
S203
RtSolPr (S205)
PrRtAdv (S207)
FBU AND REQUEST EXTERNAL TRANSMISSION ADDRESS (S209)
ACQUIRE EXTERNAL TRANSMISSION ADDRESS RELATING TO SUBNET 30
S211
TRANSMIT FBAck AND NOTIFY EXTERNAL TRANSMISSION ADDRESS (S213)
EXECUTE HANDOVER
S215

FIG. 13

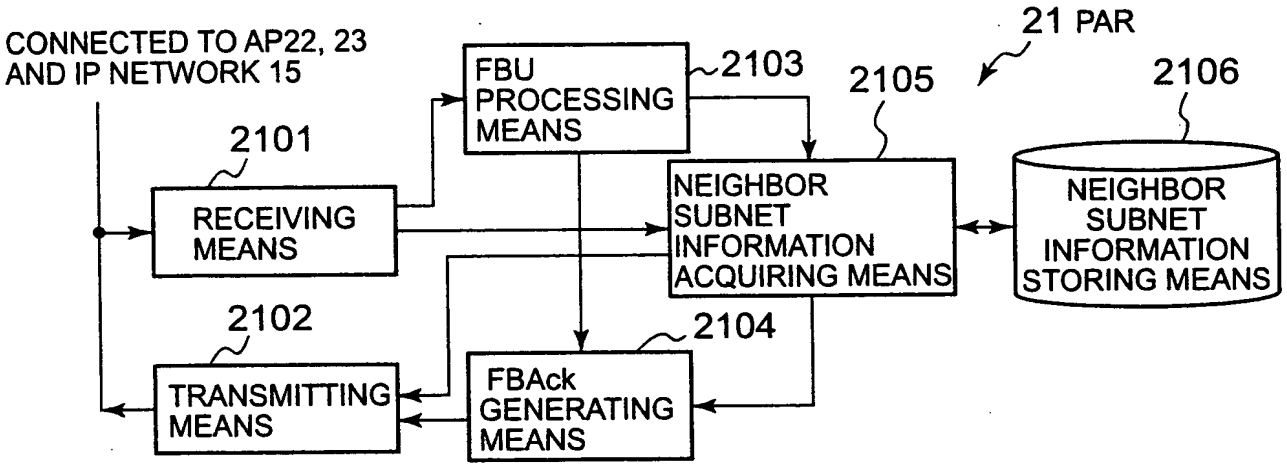

FIG. 14A

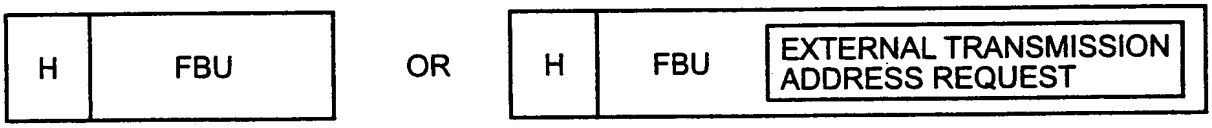

FIG. 14B

FIG. 15

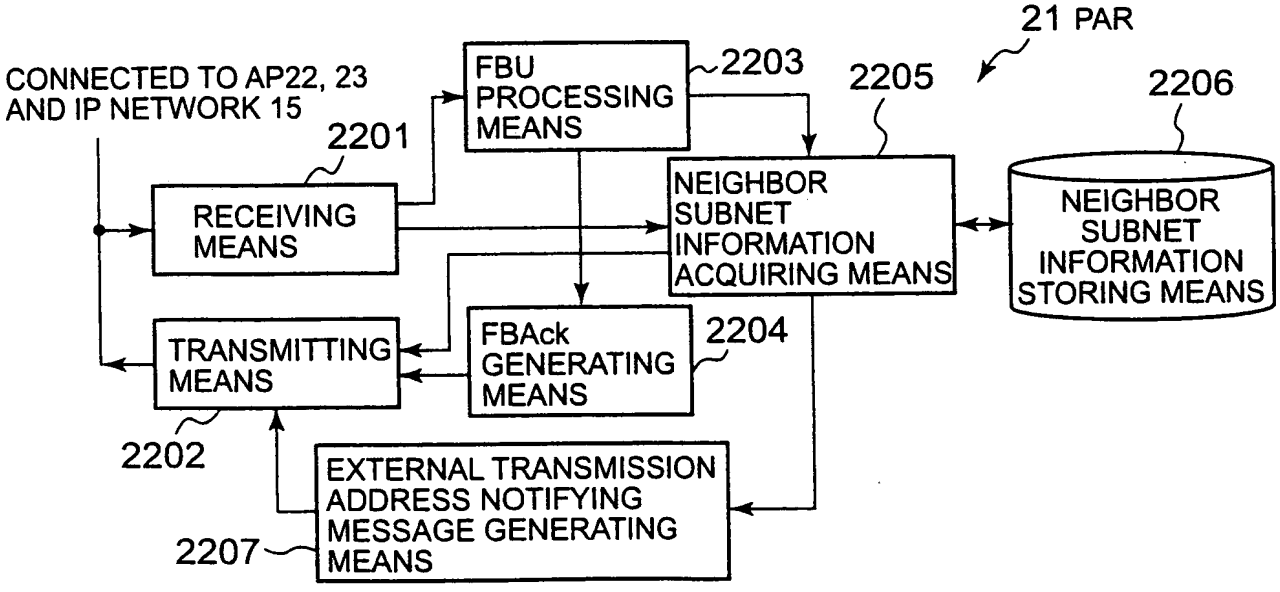

FIG. 16A

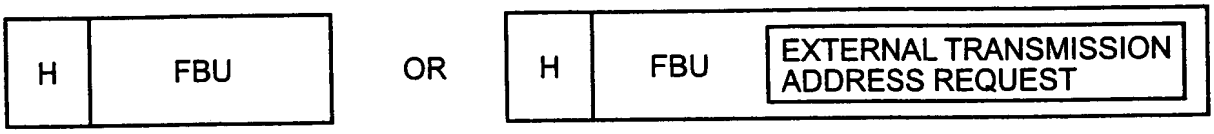

FIG. 16B

FIG. 17

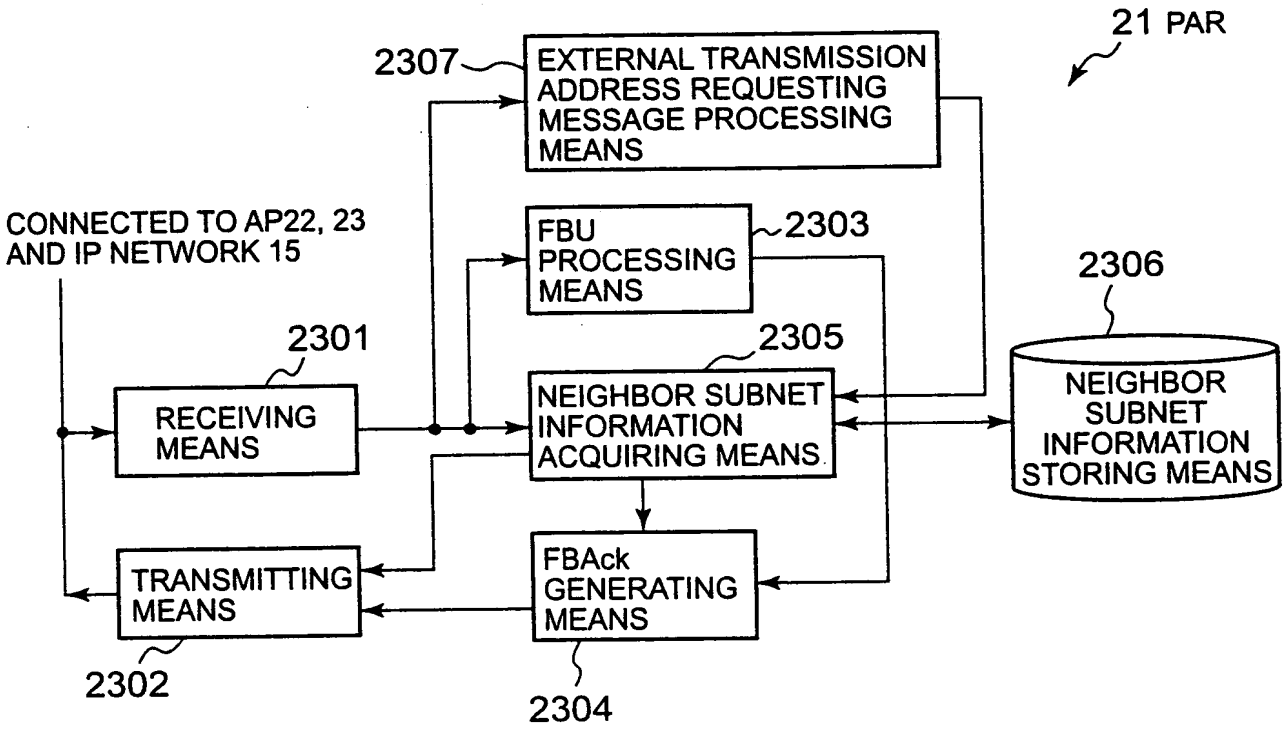

FIG. 18A

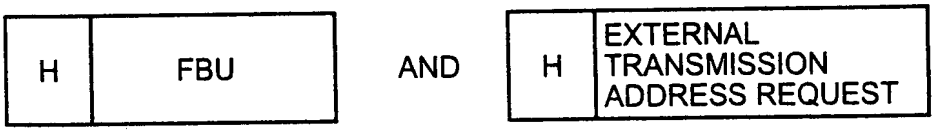

FIG. 18B

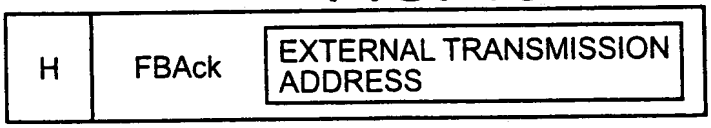

FIG. 19

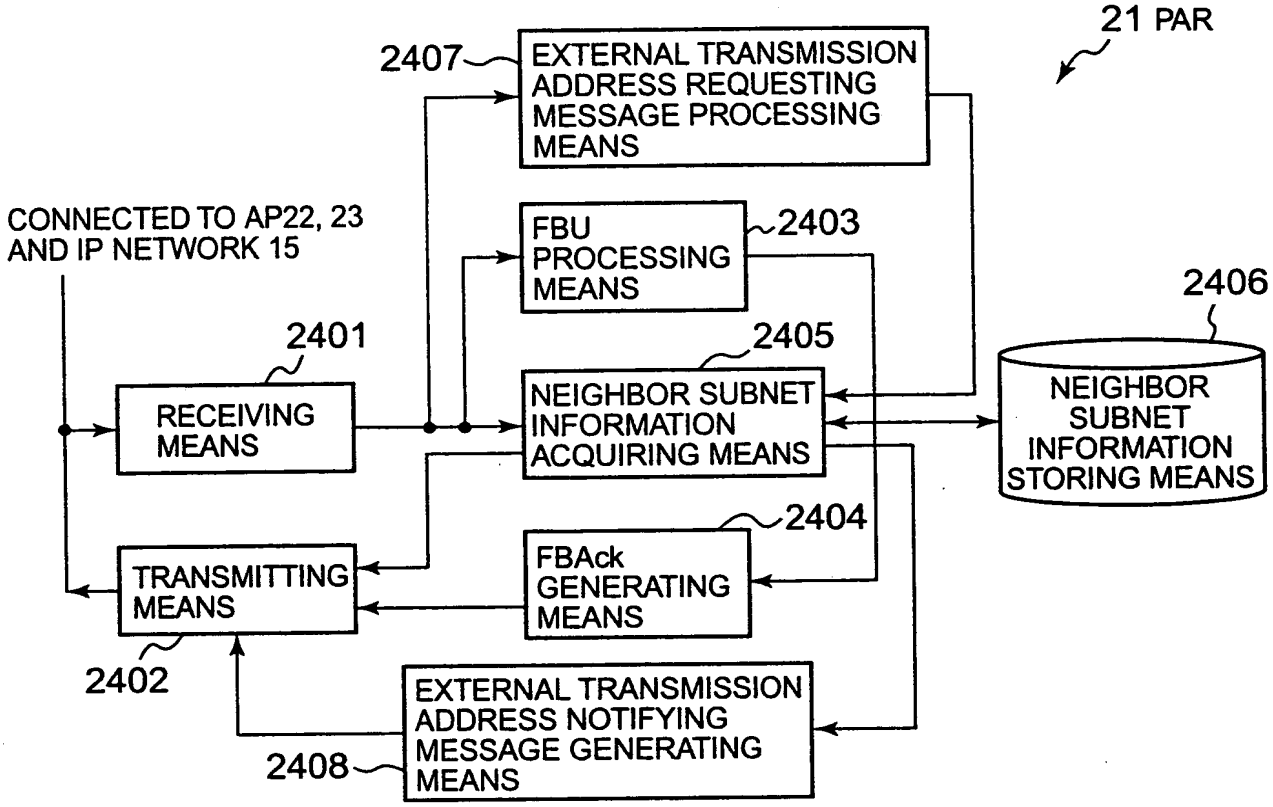

FIG. 20A

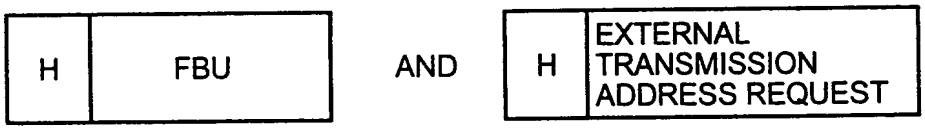

FIG. 20B

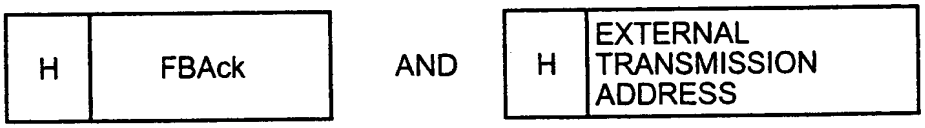

FIG. 21

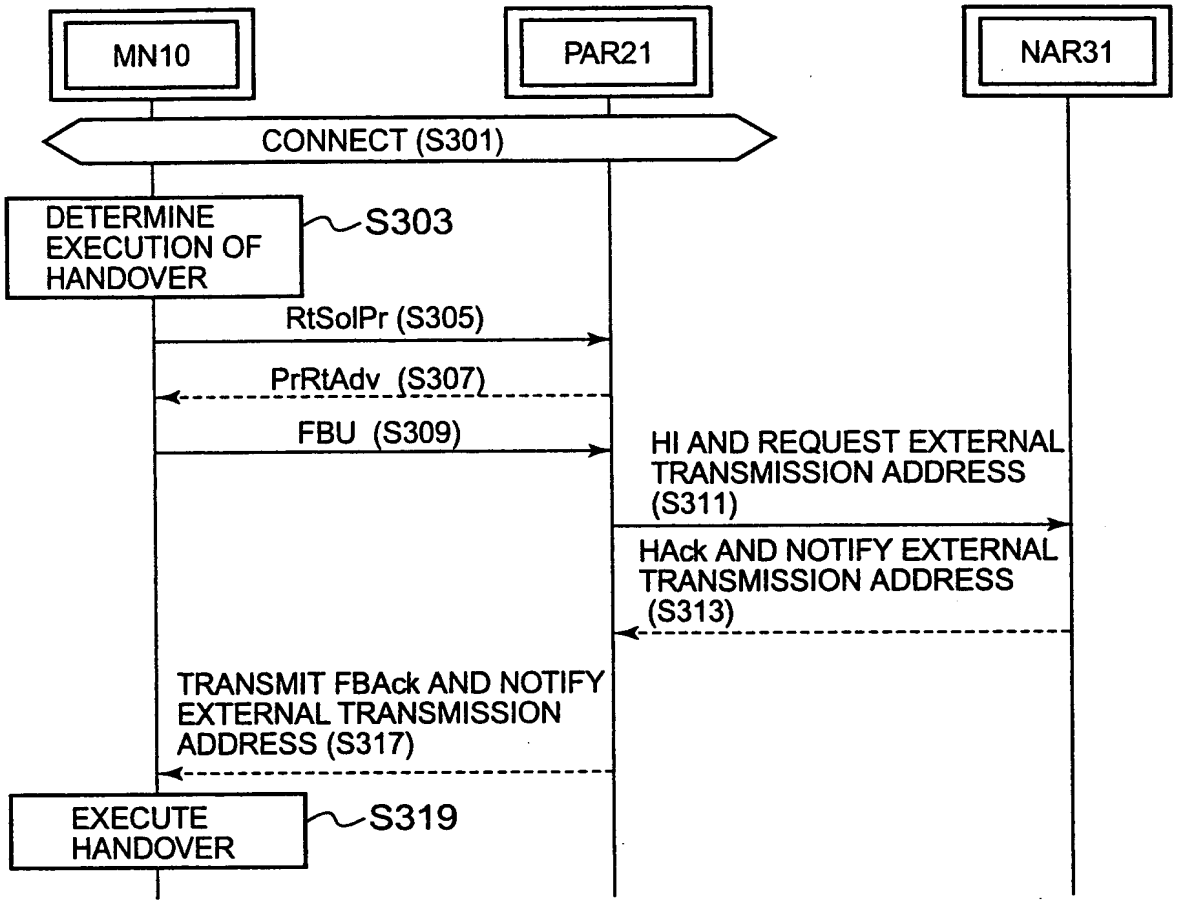
MN10
PAR21
NAR31
CONNECT (S301)
DETERMINE EXECUTION OF HANDOVER
S303
RtSolPr (S305)
PrRtAdv (S307)
FBU (S309)
HI AND REQUEST EXTERNAL TRANSMISSION ADDRESS (S311)
HAck AND NOTIFY EXTERNAL TRANSMISSION ADDRESS (S313)
TRANSMIT FBAck AND NOTIFY EXTERNAL TRANSMISSION ADDRESS (S317)
EXECUTE HANDOVER
S319

FIG. 22

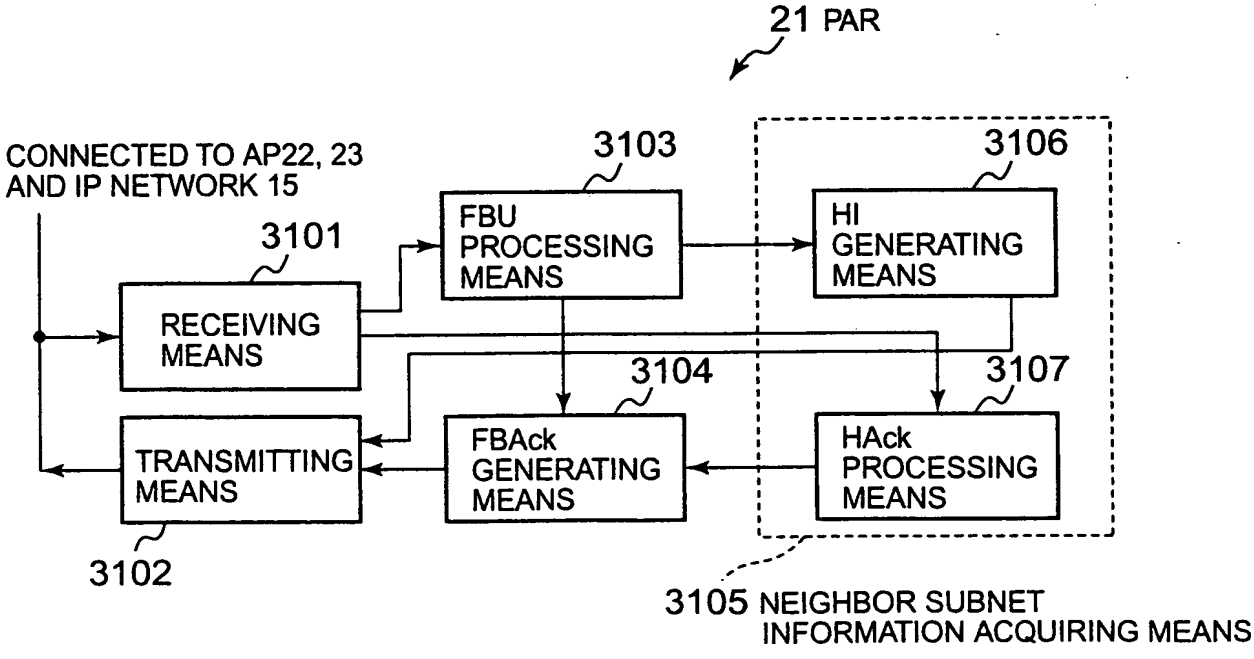
21 PAR
CONNECTED TO AP22, 23 AND IP NETWORK 15
3101
RECEIVING MEANS
3102
TRANSMITTING MEANS
3103
FBU PROCESSING MEANS
3104
FBAck GENERATING MEANS
3105 NEIGHBOR SUBNET INFORMATION ACQUIRING MEANS
3106
HI GENERATING MEANS
3107
HAck PROCESSING MEANS

FIG. 23

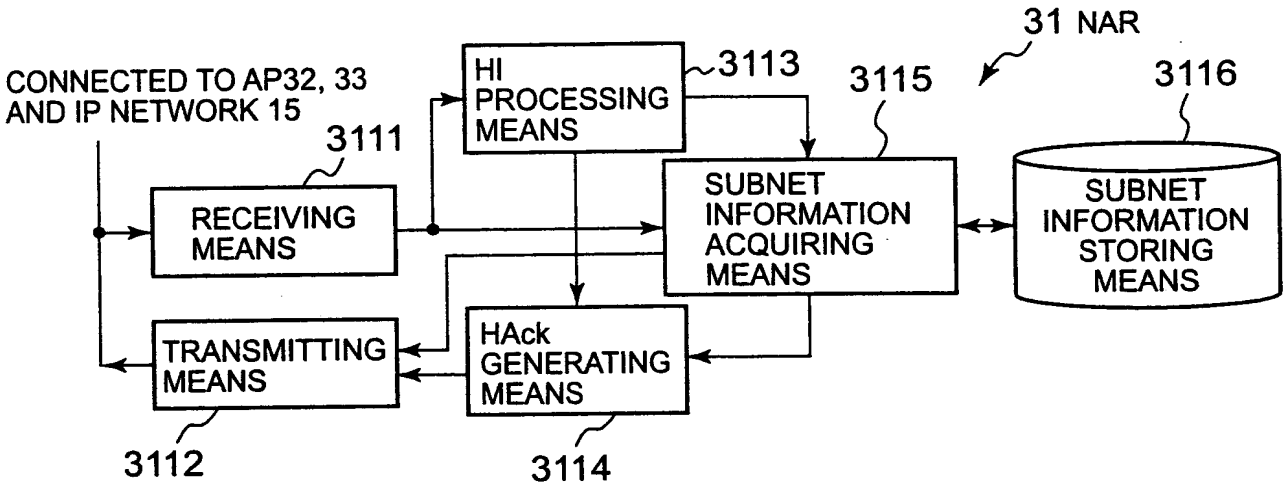

FIG. 24A

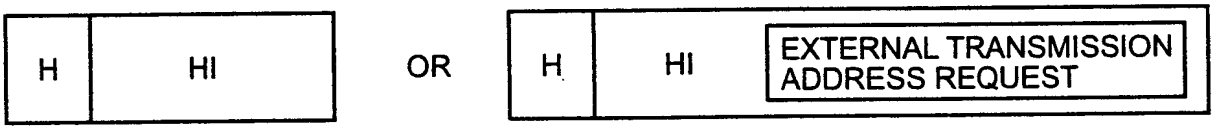

FIG. 24B

FIG. 25

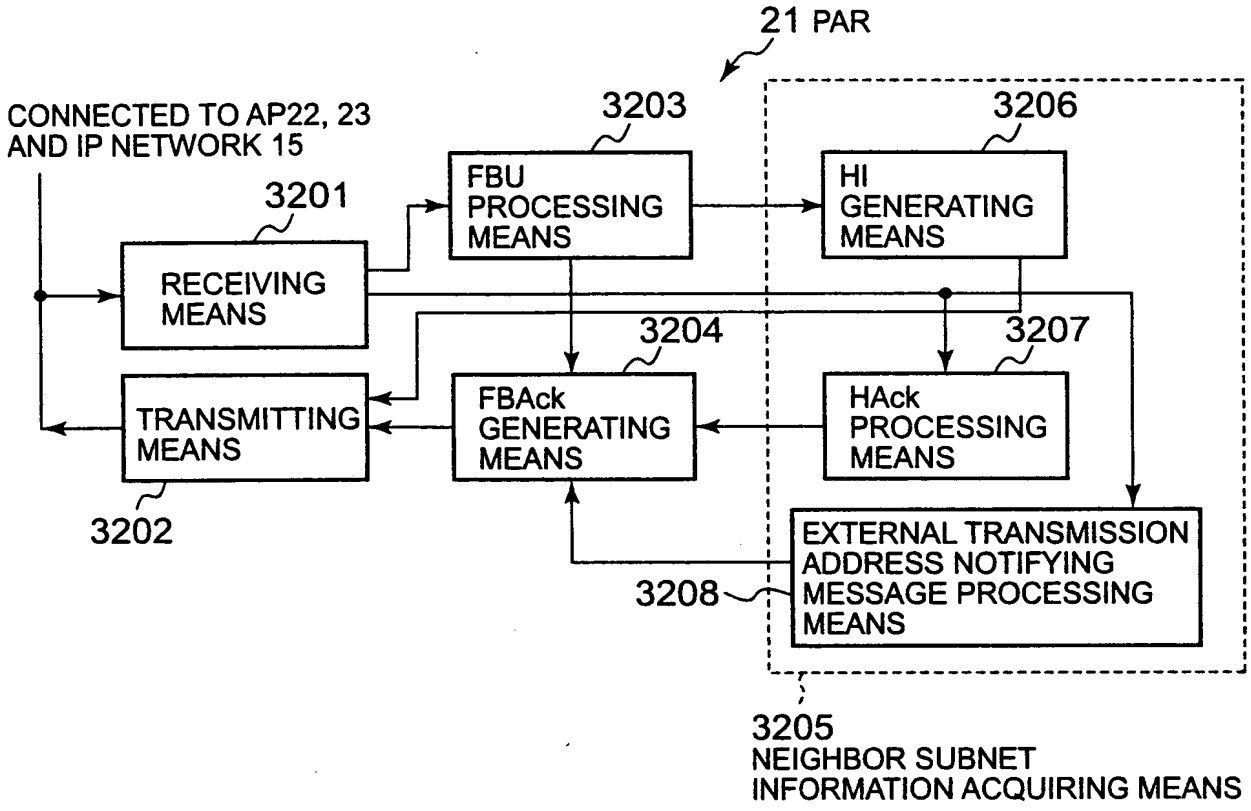
21 PAR
CONNECTED TO AP22, 23 AND IP NETWORK 15
3201
RECEIVING MEANS
3202
TRANSMITTING MEANS
3203
FBU PROCESSING MEANS
3204
FBAck GENERATING MEANS
3205
NEIGHBOR SUBNET INFORMATION ACQUIRING MEANS
3206
HI GENERATING MEANS
3207
HAck PROCESSING MEANS
3208
EXTERNAL TRANSMISSION ADDRESS NOTIFYING MESSAGE PROCESSING MEANS

FIG. 26

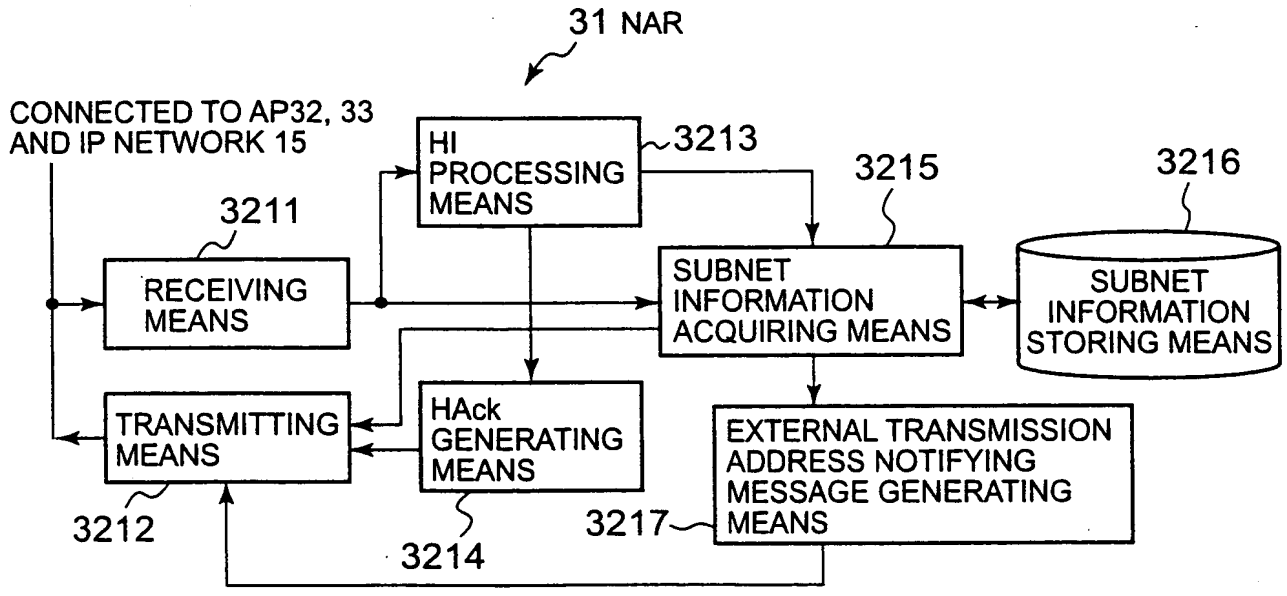
31 NAR
CONNECTED TO AP32, 33 AND IP NETWORK 15
3211
RECEIVING MEANS
3212
TRANSMITTING MEANS
3213
HI PROCESSING MEANS
3214
HAck GENERATING MEANS
3215
SUBNET INFORMATION ACQUIRING MEANS
3216
SUBNET INFORMATION STORING MEANS
3217
EXTERNAL TRANSMISSION ADDRESS NOTIFYING MESSAGE GENERATING MEANS

FIG. 27A

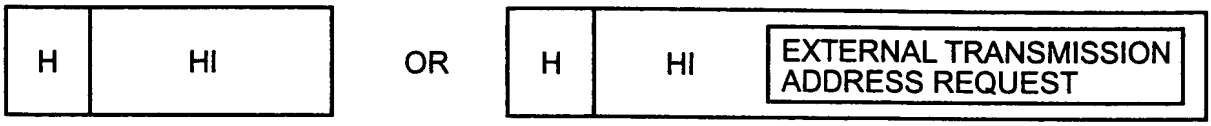

FIG. 27B

FIG. 28

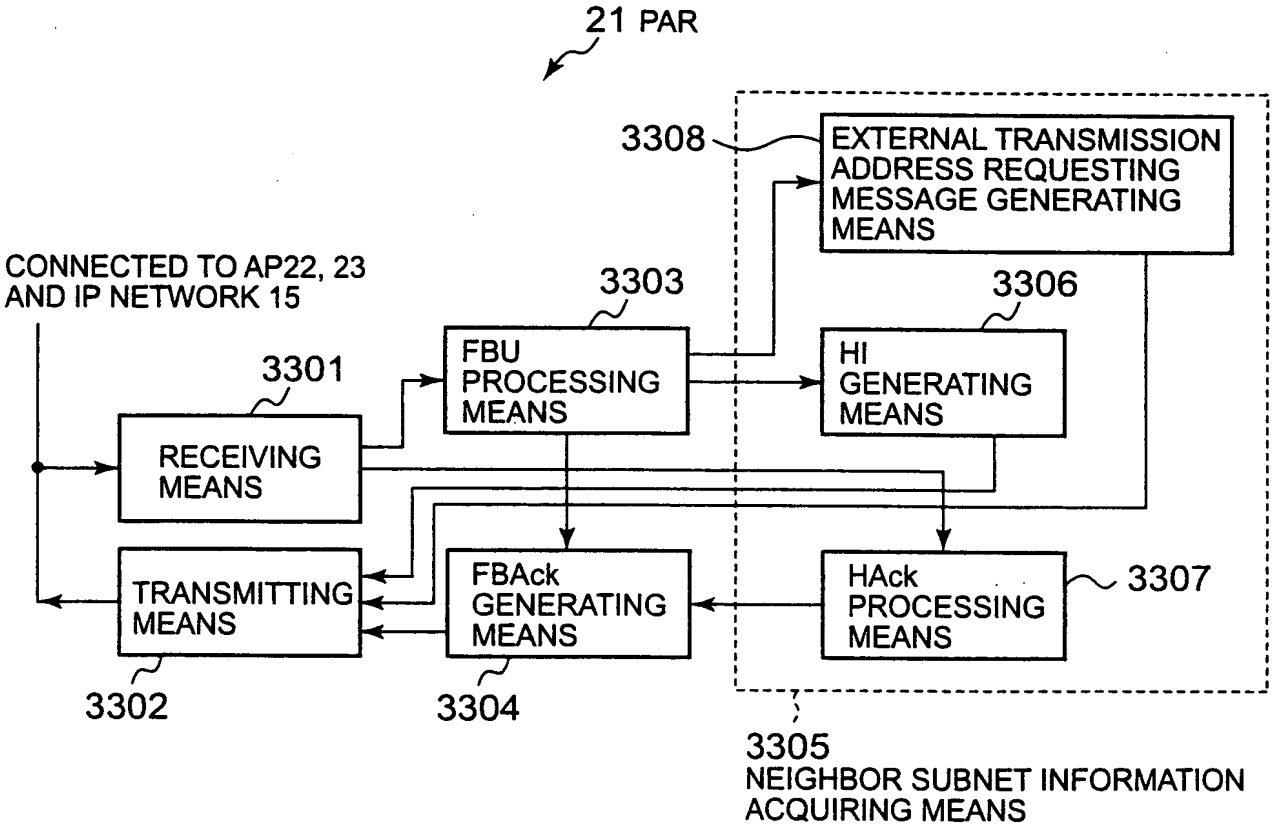

FIG. 29

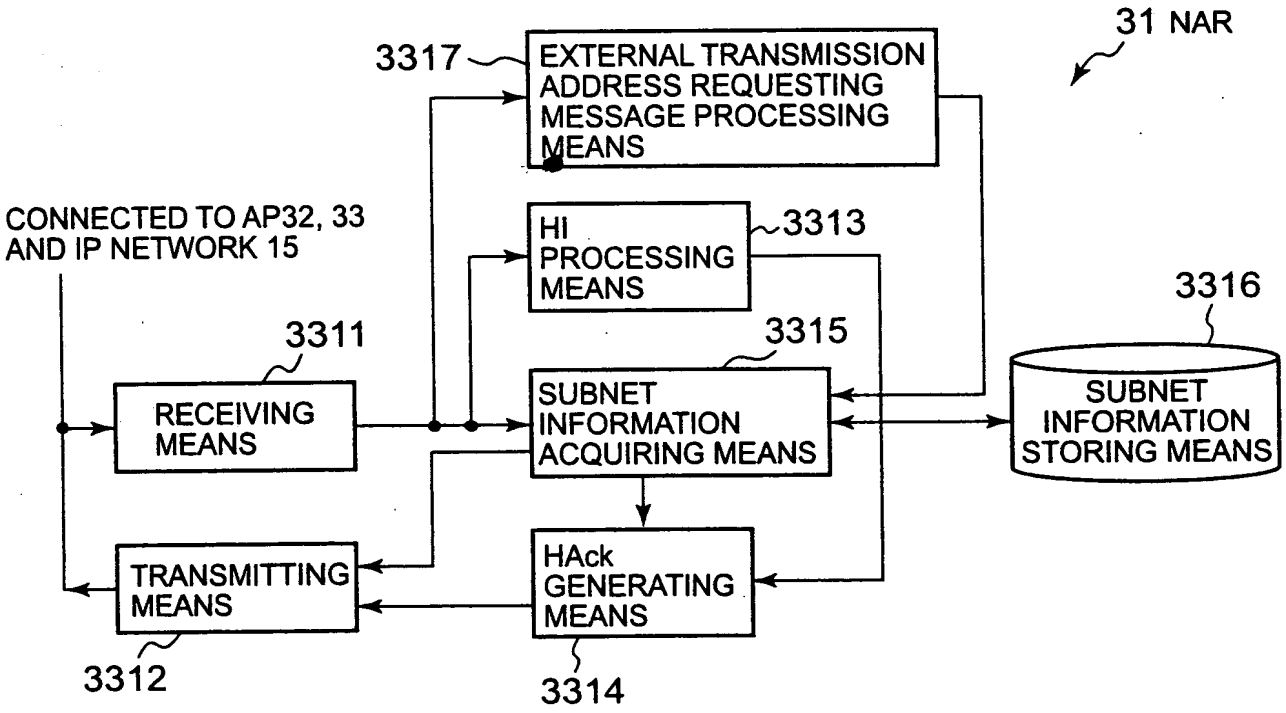

FIG. 30A

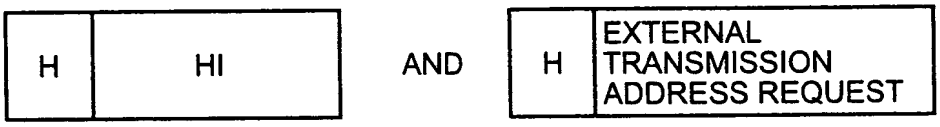

FIG. 30B

FIG. 31

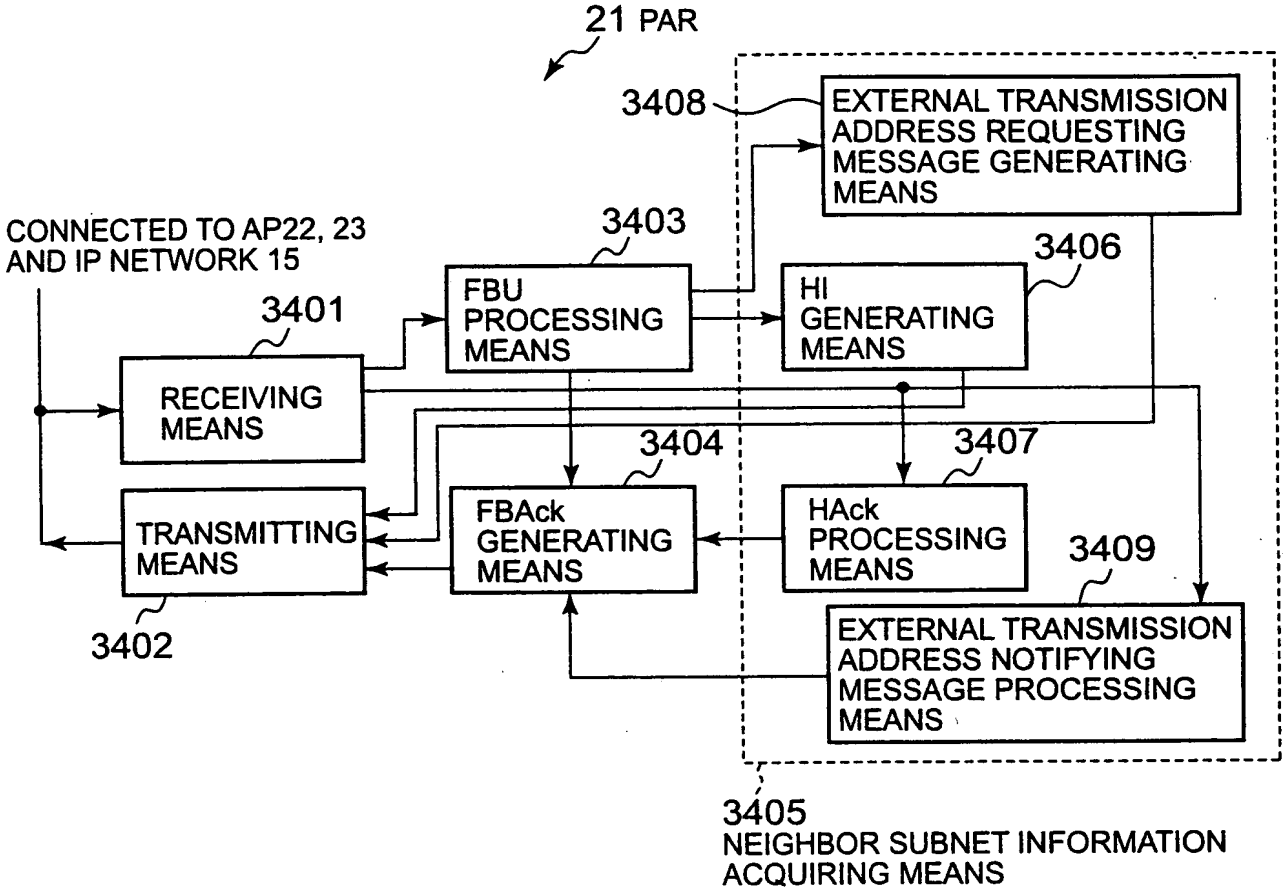
21 PAR
3408
EXTERNAL TRANSMISSION ADDRESS REQUESTING MESSAGE GENERATING MEANS
CONNECTED TO AP22, 23 AND IP NETWORK 15
3403
3406
3401
FBU PROCESSING MEANS
HI GENERATING MEANS
RECEIVING MEANS
3404
3407
TRANSMITTING MEANS
FBAck GENERATING MEANS
HAck PROCESSING MEANS
3409
3402
EXTERNAL TRANSMISSION ADDRESS NOTIFYING MESSAGE PROCESSING MEANS
3405
NEIGHBOR SUBNET INFORMATION ACQUIRING MEANS

FIG. 32

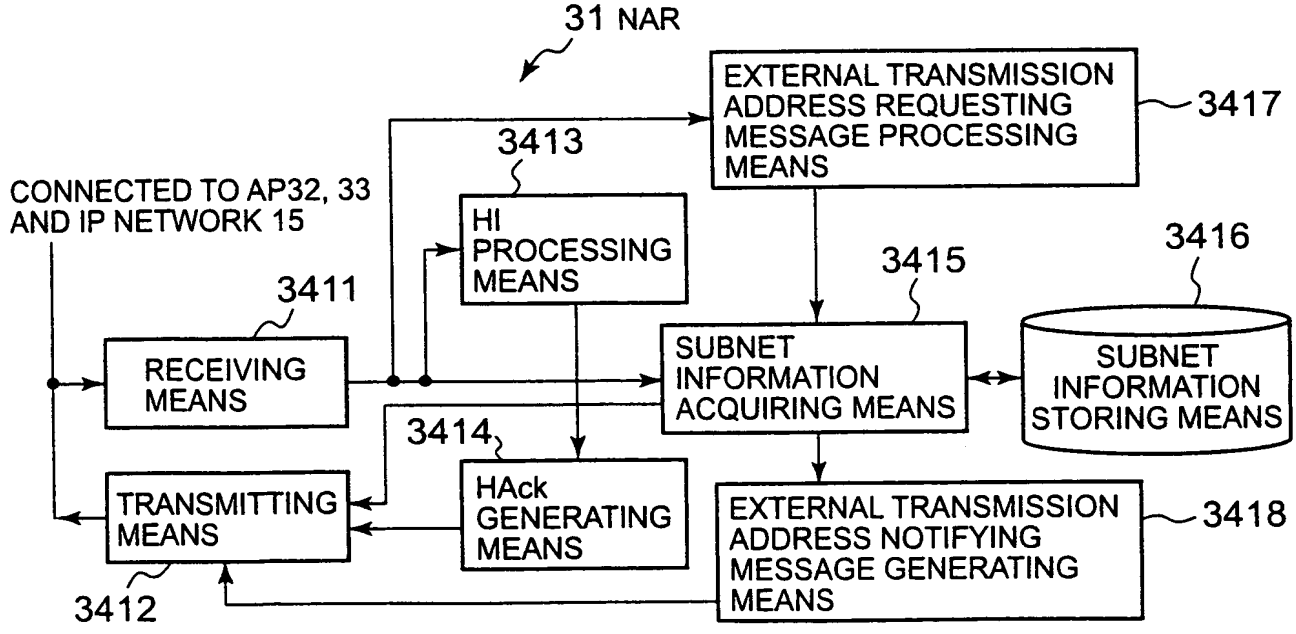
31 NAR
EXTERNAL TRANSMISSION ADDRESS REQUESTING MESSAGE PROCESSING MEANS
3417
3413
CONNECTED TO AP32, 33 AND IP NETWORK 15
HI PROCESSING MEANS
3416
3415
3411
RECEIVING MEANS
SUBNET INFORMATION ACQUIRING MEANS
SUBNET INFORMATION STORING MEANS
3414
TRANSMITTING MEANS
HAck GENERATING MEANS
EXTERNAL TRANSMISSION ADDRESS NOTIFYING MESSAGE GENERATING MEANS
3418
3412

FIG. 33A

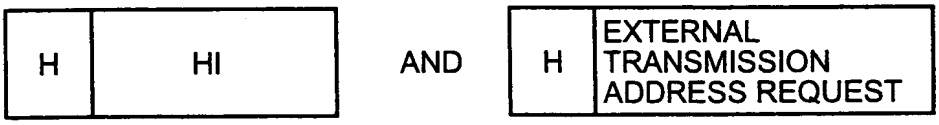

FIG. 33B

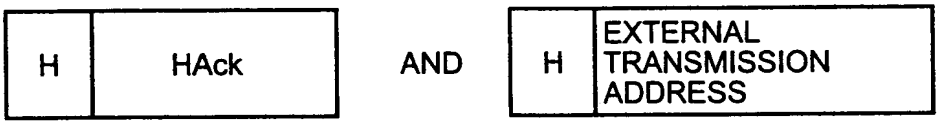

FIG. 34

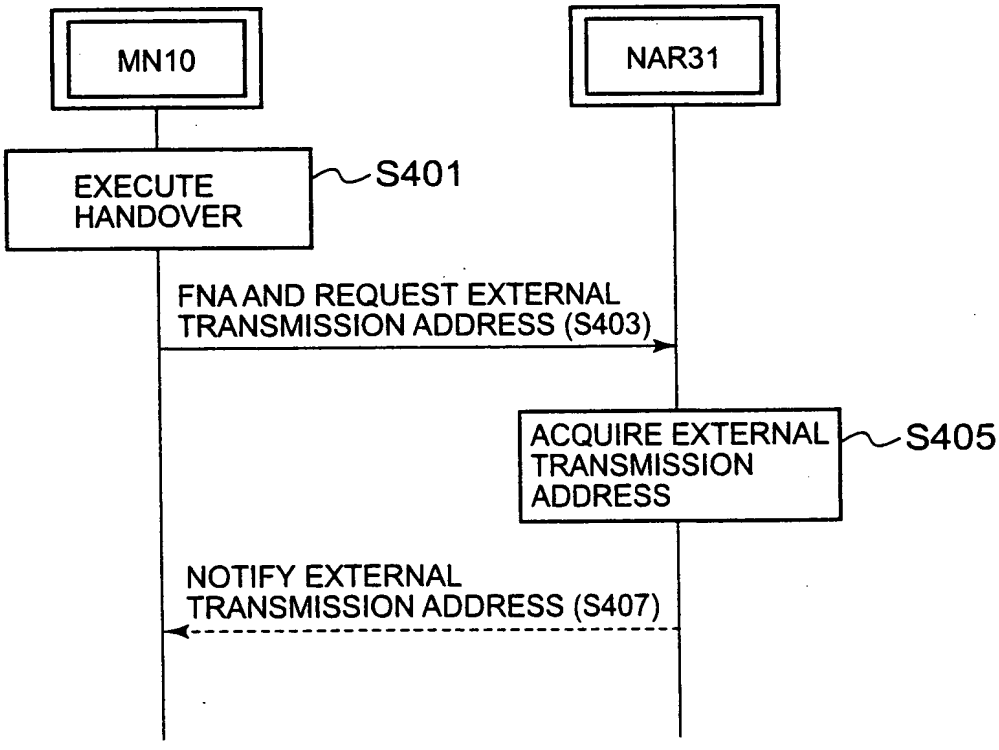

FIG. 35

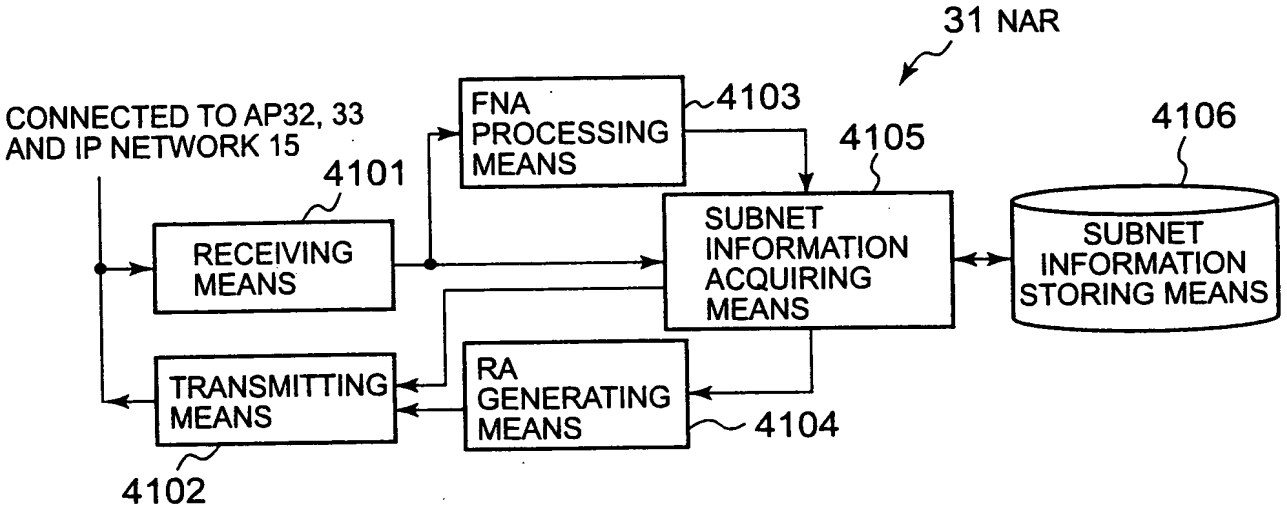

FIG. 36A

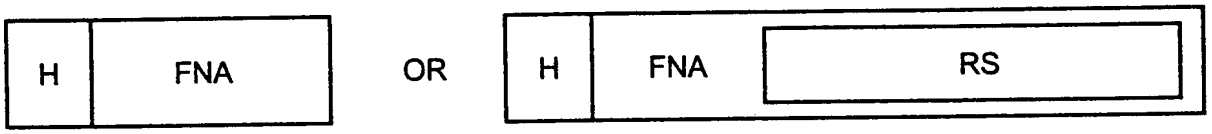

FIG. 36B

FIG. 37

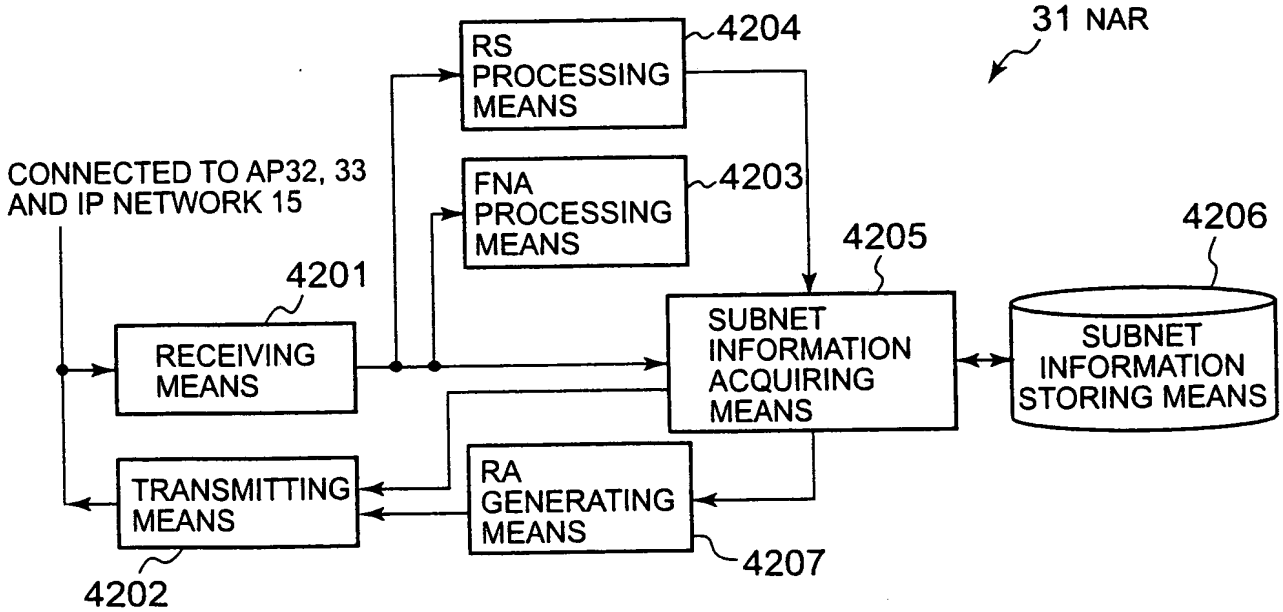

FIG. 38A

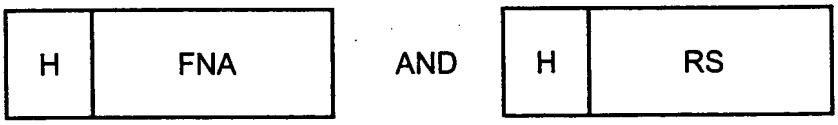

FIG. 38B

FIG. 39

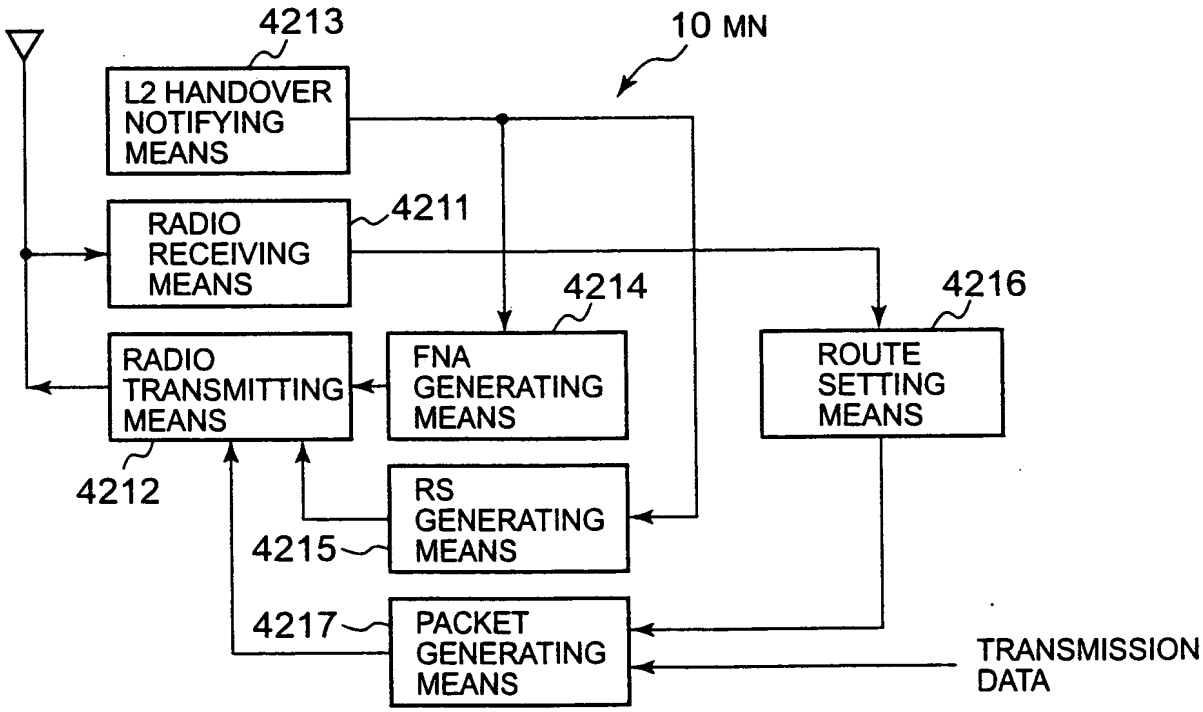

FIG. 40

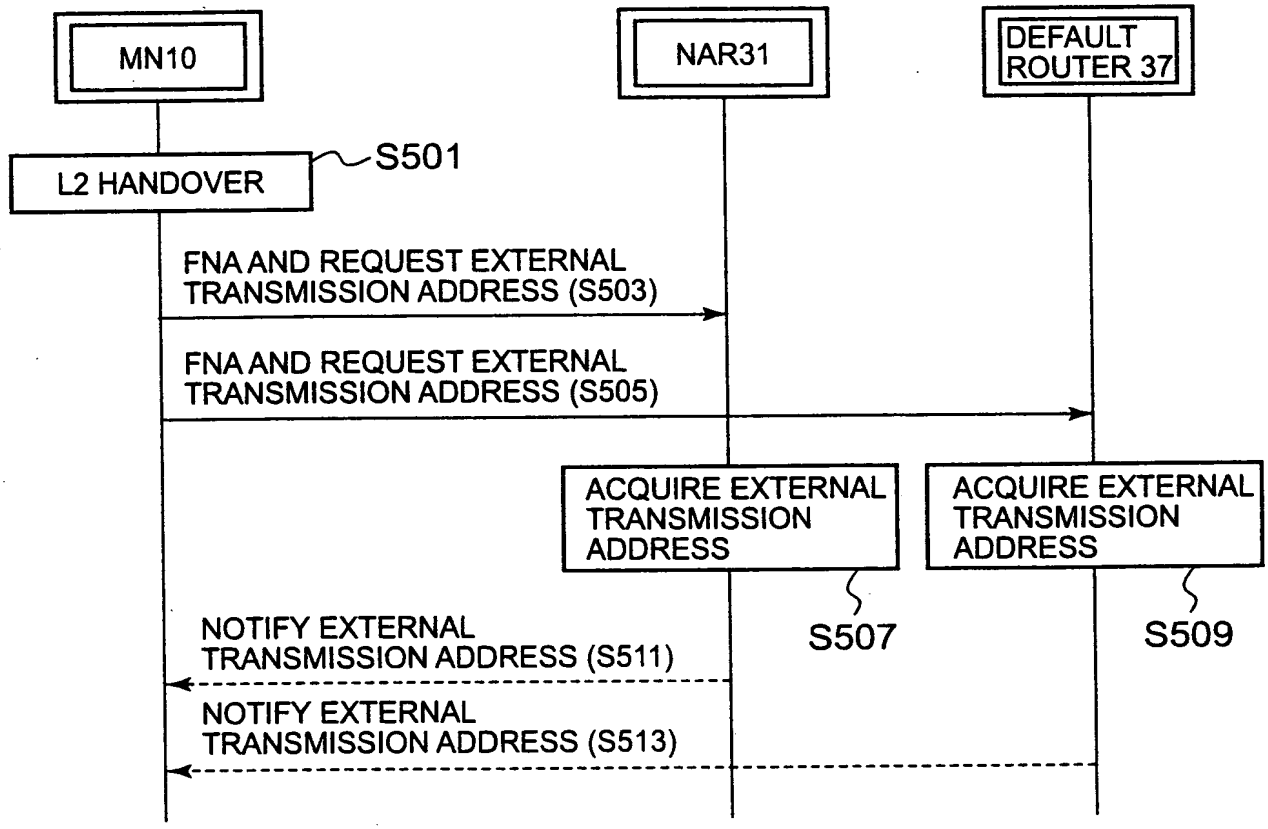
MN10
NAR31
DEFAULT ROUTER 37
L2 HANDOVER
S501
FNA AND REQUEST EXTERNAL TRANSMISSION ADDRESS (S503)
FNA AND REQUEST EXTERNAL TRANSMISSION ADDRESS (S505)
ACQUIRE EXTERNAL TRANSMISSION ADDRESS
S507
ACQUIRE EXTERNAL TRANSMISSION ADDRESS
S509
NOTIFY EXTERNAL TRANSMISSION ADDRESS (S511)
NOTIFY EXTERNAL TRANSMISSION ADDRESS (S513)

FIG. 41
PRIOR ART

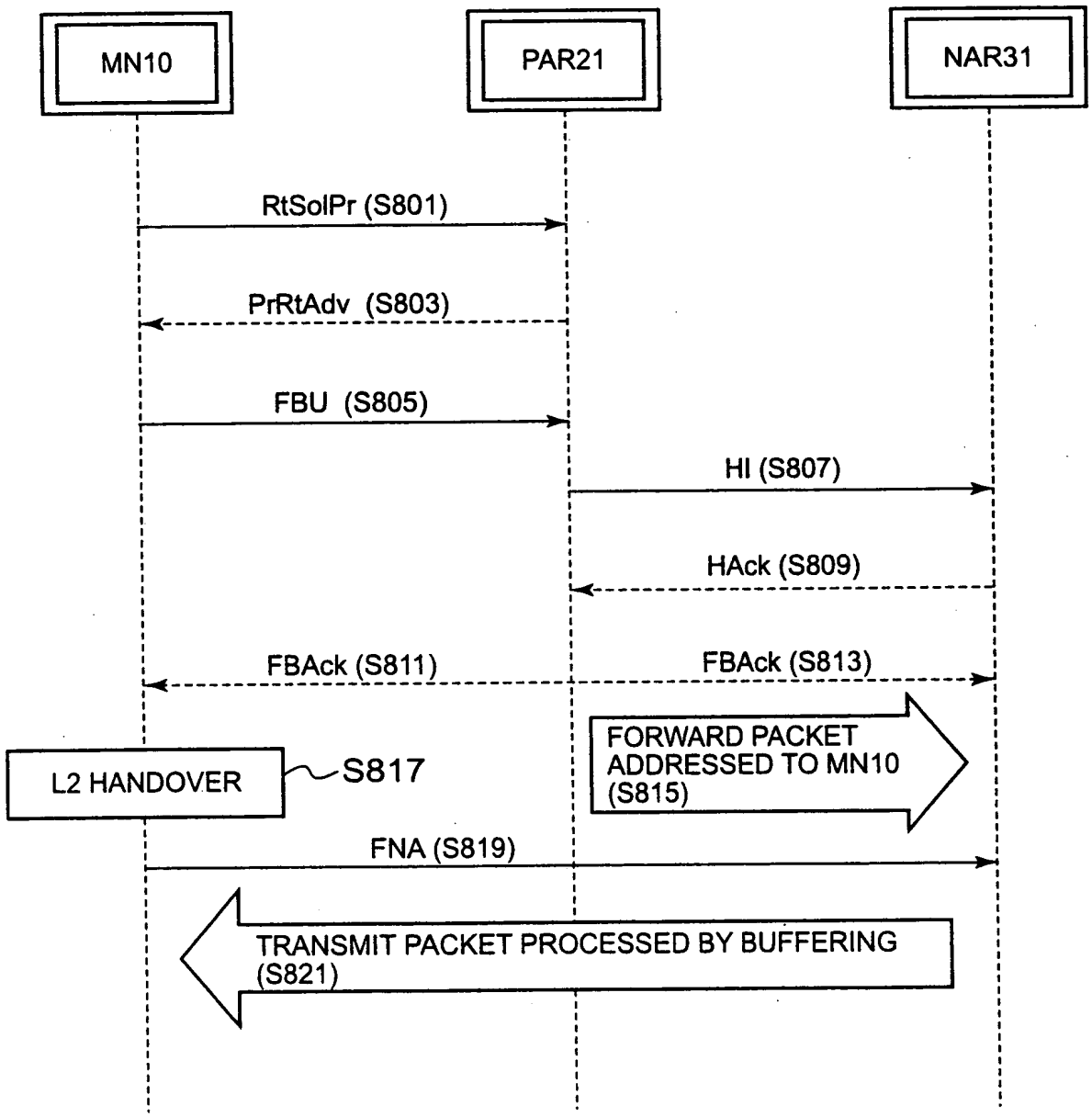

FIG. 42
PRIOR ART

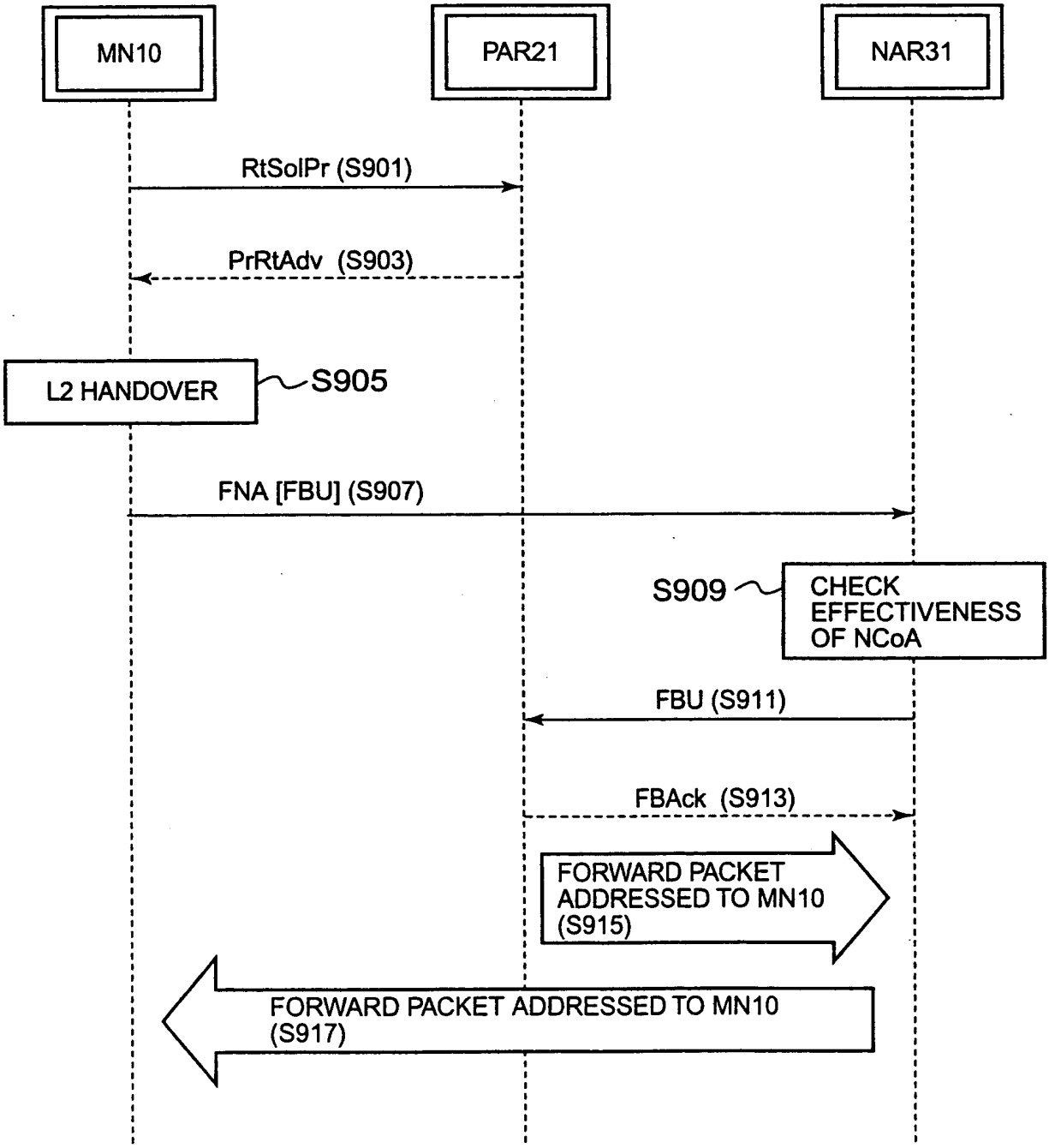

FIG. 43 PRIOR ART

(ROUTING TABLE BEFORE HANDOVER)

DESTINATION	GATEWAY
...	...
DEFAULT ROUTER	LINK LOCAL ADDRESS OF PAR21
LINK LOCAL ADDRESS OF PAR21	MAC ADDRESS OF PAR21
...	...

FIG. 44 PRIOR ART

(PACKET FROM MN10 TO NAR31)

NCoA→NAR31	PCoA→CN	HOME ADDRESS OF MN10 (HOME ADDRESS OPTION)	...

(PACKET FROM NAR31 TO PAR21)

NAR31→PAR21	PCoA→CN	HOME ADDRESS OF MN10 (HOME ADDRESS OPTION)	...

(PACKET FROM PAR21 TO CN40)

PCoA→CN	HOME ADDRESS OF MN10 (HOME ADDRESS OPTION)	...